SOUTHEAST Technical College

Southeast Tech · · Computer Information Systems

Internet Programming II CIS-196 30 O

Spring Term 2024-2025 School Year Section 30 O 3.00 Credits 01/13/2025 to 05/09/2025 Modified 01/13/2025

Course Description

Focus is on developing web-based applications that interact with other applications and/or databases using popular technologies. Concepts including responsive web development, client-side and server-side programming will be explored. Prerequisite: CIS 195

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Technical Skills

- Students will write JavaScript that can accomplish basic logic and script the DOM
- Students will utilize Node.js modules to create web applications
- Students will utilize and implement Frameworks and APIs

Critical Thinking

- Students will analyze and decide on the most appropriate solution to given problems
 e.g. When to write an application vs when to find an appropriate framework for their task
- Students will analyze tasks and apply solutions with JavaScript to handle those tasks

Professionalism

- Students will document their work to make the purpose and structure clear
- Students will prepare supporting content for their applications to assist users

Communication

- Students will present their work clearly and concisely
- Students will answer questions on their work to mimic questions from industry and consumers

📃 Course Materials

Murach's JavaScript and jQuery (4th Edition)

Author: Mary Delamater and Zak Ruvalcaba

Publisher: Murach

Edition: 4th

ISBN: 978-1-943872-62-6



Evaluation Procedures and Grading

Criteria

Туре	Weight	Topic	Notes
Unit Assessment	88%		We will have 3 Unit Assessments throughout the semester. Each assessment will consist of a project and a presentation. I will allow up to <u>1 retake</u> of each assessment, in which you will be allowed to fix your project and present it again. This retake must be completed <u>within one week of the original due date</u> . If you have circumstances that may warrant more time to complete your retake, please let me know and we can work together to catch you up.
Labs/Practice	12%		We will have practice assignments/labs throughout the semester. These may not seem like a lot, however if you skip them all, you will need at least an 80% or higher on every project to pass this course. These should serve to show you where you need to study.

dia Course Outline

When	Topic	Notes
Unit 1 Weeks 1-6	Basic DOM Scripting	 Chapter 1: Intro to JavaScript Chapter 2: Basic JavaScript Syntax Chapter 5: Testing/Debugging JavaScript Chapter 3: Conditionals, Loops, Arrrays Chapter 4: Objects, Functions, Events Chapter 6: DOM Scripting
Unit 2 Weeks 7-11	Node.js and Functional Programming	 Chapter 17: Functions, Closures, Modules Chapter 19: Node.js Chapter 13: Control Structures, Exceptions, Regular Expressions Chapter 14: Browser Objects, Cookies, Web Storage Chapter 15: Array Methods, Sets, and Maps

When	Topic	Notes
Unit 3 Weeks 12- 16	Frameworks and APIs	Chapter 18: AjaxDocs: ReactDocs: JSONPlaceholder API